

Pope Farm Nursery Utilities Upgrade -- No. 058707

Category **M-NCPPC**
 Agency **M-NCPPC**
 Planning Area **Gaithersburg Vicinity**
 Relocation Impact **None.**

Date Last Modified
 Previous PDF Page Number
 Required Adequate Public Facility

May 24, 2004
 NONE
 NO

EXPENDITURE SCHEDULE (\$000)

| Cost Element | Total | Thru FY03 | Est. FY04 | Total 6 Years | FY05 | FY06 | FY07 | FY08 | FY09 | FY10 | Beyond 6 Years |
|----------------------------------|--------------|-----------|-----------|---------------|----------|-----------|------------|------------|----------|----------|----------------|
| Planning, Design and Supervision | 298 | 0 | 0 | 298 | 0 | 91 | 118 | 89 | 0 | 0 | 0 |
| Land | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Site Improvements and Utilities | 1,208 | 0 | 0 | 1,208 | 0 | 0 | 524 | 684 | 0 | 0 | 0 |
| Construction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1,506 | 0 | 0 | 1,506 | 0 | 91 | 642 | 773 | 0 | 0 | 0 |

FUNDING SCHEDULE (\$000)

| | | | | | | | | | | | |
|------------|-------|---|---|-------|---|----|-----|-----|---|---|---|
| G.O. Bonds | 1,506 | 0 | 0 | 1,506 | 0 | 91 | 642 | 773 | 0 | 0 | 0 |
|------------|-------|---|---|-------|---|----|-----|-----|---|---|---|

ANNUAL OPERATING BUDGET IMPACT (\$000)

| | | | | | | | | | | | |
|---------------|--|--|--|------|-----|-----|-----|-----|------|------|-----|
| Energy | | | | 3 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |
| Program-Staff | | | | -108 | 0 | 0 | 0 | -22 | -43 | -43 | 0 |
| Net Impact | | | | -105 | 0 | 0 | 0 | -21 | -42 | -42 | 0 |
| Workyears | | | | -2.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.0 | -1.0 | 0.0 |

DESCRIPTION

This project provides a new water line, sewer line, and drip irrigation system to serve the facilities at Pope Farm Nursery, located in the Rock Creek Stream Valley, at 7400 Airport Road in Gaithersburg, Maryland. The site includes 60 acres in nursery production, an office building, five heater greenhouses, four over-wintering houses, three equipment storage buildings, a farmhouse, and historic cemetery. The Pope Farm Nursery, established in 1974, provides high quality herbaceous and woody plants in support of the development, maintenance, beautification and conservation of over 30,000 acres of Montgomery County parkland. The facility supplies the majority of trees, shrubs, annuals, perennials, and interior plants for the park system. Current plant production provides for new park installation and after-care, rehabilitation of older parks, environmental restoration, reforestation and production for park enterprise facilities and public gardens.

JUSTIFICATION

The two-inch water line that serves the entire facility is undersized, unreliable, and subject to numerous leaks. The upgraded water line will make water service to the site more reliable, permit expansion of production, and comply with fire codes for safety and fire suppression. Installation of an irrigation system permits more efficient use of water and staff resources, reduces loss of tree and plant inventory, complies with stormwater pollution prevention guidelines for facility and operational efficiency, and facilitates increased production as the parks system matures and expands. The old non-expandable septic system that serves the facility is too close to the stream and wetlands.

Currently, water is stored in a 650-gallon tank that is towed to the field where trees are to be irrigated. The water supply to the 650 gallon storage tank originates in the well or from the 2-inch water line. The tank is attached to a farm tractor by a draw bar and driven to the field. It may take up to two hours to fill the 650-gallon tank depending on the water pressure at the well, or the constantly fluctuating pressure in the two-inch line. The change of pressure in the two-inch line is a function of the re-occurring leaks in it. Once the irrigation water has arrived by tractor to the field where it is to be applied, it has to be manually added to commercially plastic bags attached to each tree. A small engine mounted on the platform of the 650-gallon tank supplies the force to generate the water pressure and a garden hose serves as a conduit for the water. The bags receiving the irrigation allow the water to permeate into the soil from holes in the bottom of the container. Another method of delivery to plants without a plastic bag is to apply the water manually with the garden hose to the root zone of the plant. Pope Farm has over 8,000 established trees in the nursery that need water on a regular basis to survive and grow. The current irrigation method is inefficient and inadequate.

Plans and Studies

Upper Rock Creek Area Master Plan, 1985.

Cost Change

Not applicable.

STATUS

Facility Planning completed.

APPROPRIATION AND EXPENDITURE DATA

| | | |
|------------------------------------|------|---------|
| Date First Appropriation | FY05 | (\$000) |
| Initial Cost Estimate | | 1,506 |
| First Cost Estimate | | |
| Current Scope | FY05 | 1,506 |
| Last FY's Cost Estimate | | 0 |
| Present Cost Estimate | | 1,506 |
| Appropriation Request | FY05 | 0 |
| Appropriation Req. Est. | FY06 | 137 |
| Supplemental Appropriation Request | FY04 | 0 |
| Transfer | | 0 |
| Cumulative Appropriation | | 0 |
| Expenditures/Encumbrances | | 0 |
| Unencumbered Balance | | 0 |
| Partial Closeout Thru | FY02 | 0 |
| New Partial Closeout | FY03 | 0 |
| Total Partial Closeout | | 0 |

COORDINATION

Facility Planning: Non-Local Parks PDF 958776

MAP

See Map Next Page

POPE FARMS NURSERY UTILITIES UPGRADE
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Types of utilities to be installed on site: Water Line, Sewer Line and Irrigation System

